STN- Search Summary (09856200)

D HIS

(FILE 'HOME' ENTERED AT 18:45:45 ON 02 MAY 2006)

FILE 'MEDLINE, CAPLUS, BIOSIS, WPIDS, AGRICOLA, EMBASE' ENTERED AT
18:46:53 ON 02 MAY 2006
L1 25836 S (GP120 OR GP 120)
L2 957 S L1 (5A) (STRUCTUR? OR CRYSTAL? OR COORDINAT? OR XRAY OR X-RAY
L3 459 DUP REM L2 (498 DUPLICATES REMOVED)
L4 459 SORT L3 PY A
L5 110 S L4 AND (BINDING SITE)
L6 84 S L5 AND (CD4 OR CD 4)
L7 84 DUP REM L6 (0 DUPLICATES REMOVED)
L8 84 SORT L6 PY A
L9 53 S L4 AND (INHIBITOR OR ANTAGONIST OR AGONIST OR MODULATOR)
L10 120 DUP REM L8 L9 (17 DUPLICATES REMOVED)
L11 120 SORT L10 PY A

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Tuesday, May 02, 2006

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	
☐	L26	L24 AND (crystal$ OR coordinate$ OR xray OR X-ray)	11
☐	L24	L23 AND L17	23
☐	L23	kwong$-peter$.in. OR hendrickson$-wayne$.in. OR sodroski$-joseph$.in. OR wyatt$-richard$.in.	107
☐	L20	L17 NEAR5 (crystal$ OR coordinate$ OR xray OR X-ray)	56
☐	L18	L17 SAME (crystal$ OR coordinate$ OR xray OR X-ray)	222
☐	L17	L16 OR L10	7634
☐	L16	gp ADJ 120	2683
☐	L10	gp120	5827

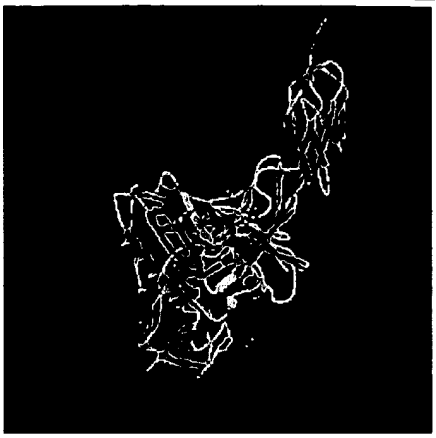
END OF SEARCH HISTORY

Pub Med Search History (09856200)

•	#34 Search **#33 AND #1**	18:30:41	35
	#33 Search **"X-Ray Diffraction"[MeSH]**	18:29:32	46042
	#32 Search **#30 OR #24**	18:29:16	37
	#30 Search **#29 AND #1**	18:28:38	31
	#29 Search **"Crystallography, X-Ray"[MeSH]**	18:28:24	27664
	#24 Search **#23 AND #1**	18:23:54	37
	#23 Search **"Crystallography"[MeSH]**	18:22:29	51584
	#22 Search **#21 AND #1**	18:22:04	1494
	#21 Search **"Molecular Structure"[MeSH]**	18:21:49	793294
	#16 Search **#15 AND #1**	18:20:33	60
	#15 Search **"Protein Structure, Tertiary"[MeSH]**	18:16:15	46541
	#10 Search **#1 AND #9**	18:15:32	120
	#9 Search **"Structure-Activity Relationship"[MeSH]**	18:06:58	106137
	#8 Search **#1 AND #7**	18:06:36	0
	#7 Search **"Quantitative Structure-Activity Relationship"[MeSH]**	18:06:15	2193
	#1 Search **"HIV Envelope Protein gp120"[MAJR]**	18:02:04	2906

Structure Summary Printout for 1GC1

Title	HIV-1 GP120 CORE COMPLEXED WITH CD4 AND A NEUTRALIZING HUMAN ANTIBODY
Authors	Kwong, P.D., Wyatt, R., Robinson, J., Sweet, R.W., Sodroski, J., Hendrickson, W.A.
Primary Citation	Kwong, P.D., Wyatt, R., Robinson, J., Sweet, R.W., Sodroski, J., Hendrickson, W.A. Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody. *Nature v393, pp. 648-659, 1998*
History	**Deposition Date:** 1998-06-15 **Release Date :** 1998-07-08
Experimental Method	X-RAY DIFFRACTION



Parameters	**Resolution[]**	**R-Value (%)**	**R-Free**	**Space Group**
	2.50	0.21 (obs.)	0.30	P 2 2 21

Unit Cell	**Length []**		**a**	71.64	**b**	88.13	**c**	196.70
	Angles []		**alpha**	90.00	**beta**	90.00	**gamma**	90.00

Molecular Description	
Functional Class	COMPLEX (HIV ENVELOPE PROTEIN/CD4/FAB)
Source	Polymer: 1, Scientific Name: HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 Common Name: HIV-1 Expression System: DROSOPHILA MELANOGASTERPolymer: 2, Scientific Name: HOMO SAPIENS Common Name: HUMAN Expression System: CHINESE HAMSTER OVARY CELLS (CHO), CRICETULUS GRISEUSPolymer: 3, Scientific Name: HOMO SAPIENS Common Name: HUMAN Expression System: EPSTEIN-BARR VIRUS IMMORTALIZED B-CELL CLONE FUSED WITH A MURINE B-CELL FUSION PARTNERPolymer: 4, Scientific Name: HOMO SAPIENS Common Name: HUMAN Expression System: EPSTEIN-BARR VIRUS IMMORTALIZED B-CELL CLONE FUSED WITH A MURINE B-CELL FUSION PARTNERPolymer: 6, Synthetic Construct Polymer: 7, Synthetic Construct Polymer: 8, Synthetic Construct Polymer: 9, Synthetic Construct

Chemical Component	**Identifier**	**Name**	**Formula**
	NAG	N-ACETYL-D-GLUCOSAMINE	$C_8 H_{15} N O_6$
	FUC	FUCOSE	$C_6 H_{12} O_5$

SCOP Classification	**Fold**	**Superfamily**	**Family**	**Domain**	**Species**
	gp120 core	gp120 core	gp120 core	gp120 core	Human immunodeficiency virus type 1

CATH Classification	**Domain**	**Class**	**Architecture**	**Topology**	**Homology**
	1gc1C1	Mainly Beta	Sandwich	Immunoglobulin-like	Immunoglobulins
	1gc1C2	Mainly Beta	Sandwich	Immunoglobulin-like	Immunoglobulins
	1gc1G0	Mainly Beta	Complex	HIV Envelope Protein Gp120; Chain G	HIV Envelope Protein Gp120; Chain G
	1gc1H1	Mainly Beta	Sandwich	Immunoglobulin-like	Immunoglobulins
	1gc1H2	Mainly Beta	Sandwich	Immunoglobulin-like	Immunoglobulins
	1gc1L1	Mainly Beta	Sandwich	Immunoglobulin-like	Immunoglobulins
	1gc1L2	Mainly Beta	Sandwich	Immunoglobulin-like	Immunoglobulins

Go Terms	Molecule	Molecular Function	Biological Process	Cellular Component
	ENVELOPE PROTEIN GP120	1. structural molecule activity	1. none	1. viral envelope
	CD4	1. none	1. immune response 2. cell adhesion	1. membrane 2. integral to membrane
	ANTIBODY 17B	1. none	1. none	1. none
	ANTIBODY 17B	1. none	1. none	1. none
	SUGAR (2-MER)	1. none	1. none	1. none
	SUGAR (2-MER)	1. none	1. none	1. none
	SUGAR (2-MER)	1. none	1. none	1. none
	SUGAR (2-MER)	1. none	1. none	1. none